Kara Anne Bernstein

List of Publications by Year
in descending order

50 papers	3,109 citations	218677 26 h-index	197818 49 g-index
56 all docs	56 docs citations	56 times ranked	6482 citing authors

#	Article	IF	Citations
1	HDACs link the DNA damage response, processing of double-strand breaks and autophagy. Nature, 2011, 471, 74-79.	27.8	368
2	Secondary Somatic Mutations Restoring RAD51C and RAD51D Associated with Acquired Resistance to the PARP Inhibitor Rucaparib in High-Grade Ovarian Carcinoma. Cancer Discovery, 2017, 7, 984-998.	9.4	310
3	The RecQ DNA Helicases in DNA Repair. Annual Review of Genetics, 2010, 44, 393-417.	7.6	265
4	The Small-Subunit Processome Is a Ribosome Assembly Intermediate. Eukaryotic Cell, 2004, 3, 1619-1626.	3.4	152
5	DNA damage during the G0/G1 phase triggers RNA-templated, Cockayne syndrome B-dependent homologous recombination. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3495-504.	7.1	123
6	RAD51 Gene Family Structure and Function. Annual Review of Genetics, 2020, 54, 25-46.	7.6	118
7	Ribosome Biogenesis Is Sensed at the Start Cell Cycle Checkpoint. Molecular Biology of the Cell, 2007, 18, 953-964.	2.1	116
8	A Pan-ALDH1A Inhibitor Induces Necroptosis in Ovarian Cancer Stem-like Cells. Cell Reports, 2019, 26, 3061-3075.e6.	6.4	108
9	Novel insights into RAD51 activity and regulation during homologous recombination and DNA replication. Biochemistry and Cell Biology, 2016, 94, 407-418.	2.0	100
10	RAD-ical New Insights into RAD51 Regulation. Genes, 2018, 9, 629.	2.4	98
11	At Loose Ends: Resecting a Double-Strand Break. Cell, 2009, 137, 807-810.	28.9	89
12	The Shu complex, which contains Rad51 paralogues, promotes DNA repair through inhibition of the Srs2 anti-recombinase. Molecular Biology of the Cell, 2011, 22, 1599-1607.	2.1	82
13	Single-Molecule Imaging Reveals that Rad4 Employs a Dynamic DNA Damage Recognition Process. Molecular Cell, 2016, 64, 376-387.	9.7	76
14	The Small Subunit Processome Is Required for Cell Cycle Progression at G1. Molecular Biology of the Cell, 2004, 15, 5038-5046.	2.1	68
15	Comprehensive Mutational Analysis of Yeast DEXD/H Box RNA Helicases Involved in Large Ribosomal Subunit Biogenesis. Molecular and Cellular Biology, 2006, 26, 1195-1208.	2.3	63
16	Comprehensive Mutational Analysis of Yeast DEXD/H Box RNA Helicases Required for Small Ribosomal Subunit Synthesis. Molecular and Cellular Biology, 2006, 26, 1183-1194.	2.3	62
17	RAD51AP1 Is an Essential Mediator of Alternative Lengthening of Telomeres. Molecular Cell, 2019, 76, 11-26.e7.	9.7	62
18	Sgs1 function in the repair of DNA replication intermediates is separable from its role in homologous recombinational repair. EMBO Journal, 2009, 28, 915-925.	7.8	60

#	Article	IF	Citations
19	Promotion of presynaptic filament assembly by the ensemble of S. cerevisiae Rad51 paralogues with Rad52. Nature Communications, 2015, 6, 7834.	12.8	60
20	The Shu complex interacts with Rad51 through the Rad51 paralogues Rad55â€“Rad57 to mediate error-free recombination. Nucleic Acids Research, 2013, 41, 4525-4534.	14.5	59
21	From yeast to mammals: Recent advances in genetic control of homologous recombination. DNA Repair, 2012, 11, 781-788.	2.8	53
22	The role of post-translational modifications in fine-tuning BLM helicase function during DNA repair. DNA Repair, 2014, 22, 123-132.	2.8	48
23	Regulation and pharmacological targeting of RAD51 in cancer. NAR Cancer, 2020, 2, zcaa024.	3.1	47
24	Phosphorylation-Regulated Transitions in an Oligomeric State Control the Activity of the Sae2 DNA Repair Enzyme. Molecular and Cellular Biology, 2014, 34, 778-793.	2.3	41
25	Pib2 and EGO Complex are both required for activation of TORC1. Journal of Cell Science, 2017, 130, 3878-3890.	2.0	41
26	Differential Requirements for the RAD51 Paralogs in Genome Repair and Maintenance in Human Cells. PLoS Genetics, 2019, 15, e1008355.	3.5	39
27	Evolutionary and Functional Analysis of the Invariant SWIM Domain in the Conserved Shu2/SWS1 Protein Family fromSaccharomyces cerevisiaetoHomo sapiens. Genetics, 2015, 199, 1023-1033.	2.9	33
28	Distinct pathways of homologous recombination controlled by the SWS1â€“SWSAP1â€“SPIDR complex. Nature Communications, 2021, 12, 4255.	12.8	30
29	The human Shu complex functions with PDS5B and SPIDR to promote homologous recombination. Nucleic Acids Research, 2019, 47, 10151-10165.	14.5	29
30	MCM8IP activates the MCM8-9 helicase to promote DNA synthesis and homologous recombination upon DNA damage. Nature Communications, 2020, 11, 2948.	12.8	28
31	The Shu complex is a conserved regulator of homologous recombination. FEMS Yeast Research, 2016, 16, fow073.	2.3	27
32	The Rad51 paralogs facilitate a novel DNA strand specific damage tolerance pathway. Nature Communications, 2019, 10, 3515.	12.8	26
33	Promotion of Homologous Recombination by SWS-1 in Complex with RAD-51 Paralogs in Caenorhabditis elegans. Genetics, 2016, 203, 133-145.	2.9	25
34	The Shu complex promotes error-free tolerance of alkylation-induced base excision repair products. Nucleic Acids Research, 2016, 44, 8199-8215.	14.5	23
35	Evolution-based screening enables genome-wide prioritization and discovery of DNA repair genes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19593-19599.	7.1	22
36	Disruption of SUMO-targeted ubiquitin ligases Slx5â€“Slx8/RNF4 alters RecQ-like helicase Sgs1/BLM localization in yeast and human cells. DNA Repair, 2015, 26, 1-14.	2.8	21

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37	Aldehyde dehydrogenase inhibitors promote DNA damage in ovarian cancer and synergize with ATM/ATR inhibitors. Theranostics, 2021, 11, 3540-3551.	10.0	21
38	RAD51 paralog function in replicative DNA damage and tolerance. Current Opinion in Genetics and Development, 2021, 71, 86-91.	3.3	17
39	Tryptophan biosynthesis is important for resistance to replicative stress in Saccharomyces cerevisiae. Yeast, 2016, 33, 183-189.	1.7	15
40	Resection Activity of the Sgs1 Helicase Alters the Affinity of DNA Ends for Homologous Recombination Proteins inSaccharomyces cerevisiae. Genetics, 2013, 195, 1241-1251.	2.9	13
41	RAD51D splice variants and cancer-associated mutations reveal XRCC2 interaction to be critical for homologous recombination. DNA Repair, 2019, 76, 99-107.	2.8	13
42	The Budding Yeast Ubiquitin Protease Ubp7 Is a Novel Component Involved in S Phase Progression. Journal of Biological Chemistry, 2016, 291, 4442-4452.	3.4	11
43	A novel high-throughput yeast genetic screen for factors modifying protein levels of the Early-Onset Torsion Dystonia-associated variant torsinAÎ”E. DMM Disease Models and Mechanisms, 2017, 10, 1129-1140.	2.4	11
44	Role and Regulation of the RECQL4 Family during Genomic Integrity Maintenance. Genes, 2021, 12, 1919.	2.4	8
45	The Shu complex regulates Rad52 localization during rDNA repair. DNA Repair, 2013, 12, 786-790.	2.8	6
46	The global role for Cdc13 and Yku70 in preventing telomere resection across the genome. DNA Repair, 2018, 62, 8-17.	2.8	6
47	Long-term survival of an ovarian cancer patient harboring a RAD51C missense mutation. Journal of Physical Education and Sports Management, 2021, 7, a006083.	1.2	5
48	The Shu complex prevents mutagenesis and cytotoxicity of single-strand specific alkylation lesions. ELife, 2021, 10, .	6.0	3
49	Targeting Therapeutic Resistance and Multinucleate Giant Cells in CCNE1-Amplified HR-Proficient Ovarian Cancer. Molecular Cancer Therapeutics, 2022, 21, 1473-1484.	4.1	1
50	Correction for Fu et al., Phosphorylation-Regulated Transitions in an Oligomeric State Control the Activity of the Sae2 DNA Repair Enzyme. Molecular and Cellular Biology, 2014, 34, 4213-4213.	2.3	0